

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application

1. (Canceled)

2. (Currently amended) ~~The system of claim 1~~ A system for holding and releasing a workpiece for electrochemical machining, the system comprising: a workpiece holder having a workpiece surface configured to couple to the workpiece in response to a negative pressure being applied to a vacuum reservoir to provide a seal between the workpiece and the workpiece surface; the vacuum reservoir disposed within the workpiece holder having a proximal end capable of being removably coupled to the workpiece; and a piston configured to move upward in the vacuum reservoir towards the workpiece and to lift the workpiece off of the workpiece surface in response to a positive pressure being applied to the system, further comprising an electrode disposed above the workpiece by a machining gap, the electrode having a pattern and configured to provide a conductive electrolyte to the machining gap such that the pattern is imposed on the workpiece.

3. (Original) The system of claim 2, further comprising a radial locator capable of being removably coupled to the workpiece holder and configured to radially locate the workpiece on the workpiece surface.

4. (Original) The system of claim 2, wherein the workpiece surface is further configured to provide an anodic contact and to resist anodic corrosion.

5. (Original) The system of claim 4, wherein the workpiece surface comprises titanium.

6. (Original) The system of claim 2, wherein the workpiece surface has a finish with a roughness average of 0.05 to 0.1 microns.

7. (Original) The system of claim 2, further comprising a base having a locating surface and configured to support the workpiece holder.

8. (Original) The system of claim 7, wherein the degree of parallelism between the workpiece surface and the locating surface is 1 micron.

9. (Original) The system of claim 2, wherein the piston includes a base portion and an ejector pin, the ejector pin configured to lift the workpiece off of the workpiece surface.

10. (Original) The system of claim 9, wherein the ejector pin includes a magnet capable of removably coupling the workpiece to the ejector pin.